JAW

Practitioner's Docket No. 2002-IP-009052U1

PATENT

### , IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| PE  | Patent application   | ·  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| 10° 30° 30° 30° 30° 30° 30° 30° 30° 30° 3 | of   | Inventor(s)  |  |  |  |  |  |
| DEC 0 2 2004 3                            | for  |  |  |  |  |  |  |
|   | ٦  | Title of invention   |  |  |  |  |  |
| THADEMAK                                  |  | OR   |  |  |  |  |  |
|   | in re application of: Trinidad Munoz, Jr., et al   |  |  |  |  |  |  |
|   | Application No.:10 /609,031<br>Filed: 06/27/03   | Group Art Unit:  |  |  |  |  |  |
|   |  | <b>Examiner:</b> Pating Fluids in Subterranean Zones and   |  |  |  |  |  |
|   | Degradable Diverting Mar<br>Commissioner for Patents   | terials  |  |  |  |  |  |
|   | P.O. Box 1450  | •  |  |  |  |  |  |
|   | Alexandria, VA 22313-1450  |  |  |  |  |  |  |
|   | BEFORE MAILING OF FIRST  CERTIFICATION UND  (When using Express Mail, the Express Mail)                                      | MATION DISCLOSURE STATEMENT MONTHS' OF FILING OR OFFICE ACTION (37 C.F.R. § 1.97(b))  ER 37 C.F.R. § 1.8(a) and 1.10° Express Mail label number is mandatory; il certification is optional.) |  |  |  |  |  |
|   | I hereby certify that, on the date shown below, this correspondence is being:  MAILING                                       |  |  |  |  |  |  |
|   | deposited with the United States Postal Service in an envelope addressed to Commissional Box 1450, Alexandria, VA 22313-1450 |  |  |  |  |  |  |
|   | 37 C.F.R. § 1.8(a)  ⊠ with sufficient postage as first class mail.   | 37 C.F.R. § 1.10 *  as "Express Mail Post Office to Addressee"  Mailing Label No   |  |  |  |  |  |
|   | TF   | (mandatory)  |  |  |  |  |  |
| !   | <ul> <li>facsimile transmitted to the Patent and Trade</li> </ul>  | mark Office, (703)   |  |  |  |  |  |
| 1   | Date: Varoy  | Signature Tammy Knight   |  |  |  |  |  |

"Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

(type or print name of person certifying)

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [6-3]—page 1 of 3)

NOTE: 37 C.F.R. 1.98(b):

- (1) Each U.S. patent listed in an information disclosure statement must be identified by inventor, patent number, and issue date.
- (2) Each U.S. patent application publication listed in an information disclosure statement shall be identified by applicant, patent application publication number, and publication date.
- (3) Each U.S. application listed in an information disclosure statement must be identified by the inventor, application number, and filing date.
- (4) Each foreign patent or published foreign patent application listed in an information disclosure statement must be identified by the country or patent office which issued the patent or published the application, an appropriate document number, and the publication date indicated on the patent or published application.
- (5) Each publication listed in an information disclosure statement must be identified by publisher, author (if any), title, relevant pages of the publication, date, and place of publication.

WARNING: No extension of time can be had under 37 C.F.R. § 1.138 (a) or (b) for filing an IDS. 37 C.F.R. § 1.97(f).

NOTE: The "filing date of a national application" under 37 C.F.R. § 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 C.F.R. § 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. § 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the basic national fee; (2) a copy of the international application, unless already sant by the International Bureau, and optionally an English translation if filed in another language; and, also optionally (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. The optional items must be submitted later, with surcharges. 37 C.F.R. § 1.97(b)(2).

### IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. § 1.97(b).

- NOTE: "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing."
- NOTE: "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 C.F.R. 1.8, or Express Mail certificate under 37 C.F.R. 1.10. An Office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39). See also § 609, M.P.E.P., 8th Edition.
- NOTE: "The term 'national application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [6-3]—page 2 of 3) NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 C.F.R. 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not malled until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. § 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63). But see § 103(b) and (c), limited suspension of action in a continued prosecution application (CPA) filed under § 1.53(d) and in a request for continued examination (RCE) under § 1.114.

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(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [6-3]—page 3 of 3)

#### PATENT 2002-IP-009052U1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Applicants: Trinidad Munoz, et al Art Unit: Unknown Serial No.: 10/609,031 Filed: 06/27/2003 Examiner: Unknown For: Methods of Diverting Treating Fluids in Subterranean Zones and Degradable Diverting Materials

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS Alexandria, VA 22313-1450

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

#### **U.S. PATENTS**

- U.S. Patent Number 2,703,316 issued 03/01/55 to Bentley J. Palmer;
- U.S. Patent Number 3,272,650 issued 09/13/66 to Russell L. MacVittie;
- U.S. Patent Number 3,819,525 issued 06/25/74 to David L. Hattenbrun;
- U.S. Patent Number 3,912,692 issued 10/14/75 to Donald James Casey, et al;
- U.S. Patent Number 4,172,066 issued 10/23/79 to Maurice L. Zweigle, et al;
- U.S. Patent Number 4,460,052 issued 07/17/84 to Judith Gockel;
- U.S. Patent Number 4,498,995 issued 02/12/85 to Judith Gockel;

- U.S. Patent Number 4,797,262 issued 01/10/89 to Thomas S. Dewitz;
- U.S. Patent Number 5,249,628 issued 10/05/93 to Jim B. Surjaatmadja;
- U.S. Patent Number 5,295,542 issued 03/22/94 to R. Clay Cole, et al;
- U.S. Patent Number 5,325,923 issued 07/05/94 to Jim B. Surjaatmadja, et al;
- U.S. Patent Number 5,330,005 issued 07/19/94 to Roger J. Card, et al;
- U.S. Patent Number 5,360,068 issued 11/01/94 to Eve S. Sprunt, et al;
- U.S. Patent Number 5,363,916 issued 11/15/94 to Ronald E. Himes, et al;
- U.S. Patent Number 5,373,901 issued 12/20/94 to Lewis R. Norman, et al;
- U.S. Patent Number 5,386,874 issued 02/07/95 to Steven B. Laramay, et al'
- U.S. Patent Number 5,396,957 issued 03/14/95 to Jim B. Surjaatmadja, et al;
- U.S. Patent Number 5,402,846 issued 04/04/95 to Alfred R. Jennings, Jr., et al;
- U.S. Patent Number 5,464,060 issued 11/07/95 to Arthur H. Hale, et al;
- U.S. Patent Number 5,497,830 issued 03/12/96 to Joel L. Boles, et al;
- U.S. Patent Number 5,499,678 issued 03/19/96 to Jim B. Surjaatmadja, et al;
- U.S. Patent Number 5,505,787 issued 04/09/96 to Kyouichi Yamaguchi;
- U.S. Patent Number 5,512,071 issued 04/30/96 to Benny S. Yam, et al;
- U.S. Patent Number 5,604,186 issued 02/18/97 to Charles V. Hunt, et al;
- U.S. Patent Number 5,670,473 issued 09/23/97 to William H. Scepauski;
- U.S. Patent Number 5,698,322 issued 12/16/97 to Fu-Jya Tsai, et al;
- U.S. Patent Number 5,765,642 issued 06/16/98 to Jim B. Surjaatmadja;
- U.S. Patent Number 5,833,000 issued 11/10/98 to Jim D. Weaver, et al;

- U.S. Patent Number 5,853,048 issued 12/29/98 to Jim D. Weaver, et al;
- U.S. Patent Number 5,893,416 issued 04/13/99 to Peter Arne Read;
- U.S. Patent Number 5,964,291 issued 10/12/99 to Hugh M. Bourne, et al;
- U.S. Patent Number 6,004,400 issued 12/21/99 to Phillip W. Bishop, et al;
- U.S. Patent Number 6,024,170 issued 02/15/00 to Michael A. McCabe, et al;
- U.S. Patent Number 6,028,113 issued 02/22/00 to William H. Scepanski;
- U.S. Patent Number 6,123,965 issued 09/26/00 to Jules S. Jacob, et al;
- U.S. Patent Number 6,135,987 issued 10/24/00 to Fu-Jya Daniel Tsai, et al;
- U.S. Patent Number 6,169,058 B1 issued 01/02/01 to Hoang V. Le, et al;
- U.S. Patent Number 6,202,751 B1 issued 03/20/01 to Jiten Chatterji, et al;
- U.S. Patent Number 6,209,646 B1 issued 04/03/01 to Baireddy R. Reddy, et al;
- U.S. Patent Number 6,214,773 B1 issued 04/10/01 to Phillip C. Harris, et al;
- U.S. Patent Number 6,260,622 B1 issued 07/17/01 to Reinoud Hendrik Jurgen Blok, et al;
- U.S. Patent Number 6,311,773 B1 issued 11/06/01 to Bradley L. Todd, et al;
- U.S. Patent Number 6,357,527 B1 issued 03/19/02 to Lewis R. Norman, et al;
- U.S. Patent Number 6,364,945 B1 issued 04/02/02 to Jiten Chatterji, et al;
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- U.S. Patent Number 6,454,003 B1 issued 09/24/02 to Kin-Tai Chang, et al;
- U.S. Patent Number 6,488,763 B2 issued 12/03/02 to Lance E. Brothers, et al;

- U.S. Patent Number 6,494,263 B2 issued 12/17/02 to Bradley L. Todd;
- U.S. Patent Number 6,508,305 B1 issued 01/21/03 to Harold D. Brannon, et al;
- U.S. Patent Number 6,527,051 B1 issued 03/04/03 to Baireddy R. Reddy, et al;
- U.S. Patent Number 6,554,071 B1 issued 04/29/03 to Baireddy R. Reddy, et al;
- U.S. Patent Number 6,569,814 B1 issued 05/27/03 to Mark E. Brady, et al;
- U.S. Patent Number 6,667,279 B1 issued 12/23/03 to James E. Hessert, et al;
- U.S. Patent Number 6,681,856 B1 issued 01/27/04 to Jiten Chatterji, et al;
- U.S. Patent Number 6,686,328 B1 issued 02/03/04 to Christopher James Binder;
- U.S. Publication Number 2003/0188766 A1 published 10/09/03 by Souvik Banerjee, et al;
- U.S. Publication Number 2004/0055747 A1 published 03/25/04 by Li-Jien Lee;
- U.S. Publication Number 2004/0106525 A1 published 06/03/04 by Dean Willberg, et al;
- U.S. Publication Number 2004/0138068 A1 published 07/15/04 by Brett Rimmer, et al;
- U.S. Publication Number 2004/0152601 A1 published 08/05/04 by John W. Still, et al;
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Synthetic Polymer Fracturing Fluid for High-Temperature Applications, SPE 80236, published 2003 Society of Petroleum Engineers by Gary P. Funkhouser, et al; Chelating Agents, Encyclopedia of Chemical Technology, Volume 5, 764-795; A New Assay for the Enzymatic Degradation of Polylactic Acid, Short Report, published ScienceAsia 29 (2003): 297-300 by Virun Vichaibun, et al;

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Cobra Frac<sup>SM</sup> Service, Coiled Tubing Fracturing—Cost-Effective Method for Stimulating
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CobraJet Frac<sup>SM</sup> Service, Cost-effective Technology That Can Help Reduce Cost Per
BOE Produced, Shorten Cycle Time and Reduce Capex published Halliburton
Communications.

Copies of the aforementioned non-patent references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

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#### PTO-1449

Information Disclosure Citation in an Application

Application No. 10/609,031

Applicant(s)
Trinidad Munoz, et al

Docket Number 2002-IP-009052U1 Group Art Unit

Filing Date 06/27/2003

**U.S. PATENT DOCUMENTS** 

| MADEMAR | DOCUMENT<br>NO. | ISSUE/<br>PUB.<br>DATE | NAME                  | CLASS | SUBCLASS | FILING<br>DATE |
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|         | 3,272,650       | 09-13-66               | MacVittie             | 134   | 7        | 02-21-63       |
|         | 3,819,525       | 06-25-74               | Hattenbrun            | 252   | 132      | 08-21-72       |
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|         | 4,797,262       | 01-10-89               | Dewitz                | 422   | 142      | 06-03-87       |
|         | 5,249,628       | 10-05-93               | Surjaatmadja          | 166   | 305      | 09-29-92       |
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|         | 5,373,901       | 12-20-94               | Norman, et al.        | 166   | 300      | 07-27-93       |
|         | 5,386,874       | 02-07-95               | Laramay, et al.       | 166   | 300      | 11-08-93       |
|         | 5,396,957       | 03-14-94               | Surjaatmadja, et al.  | 166   | 308      | 03-04-94       |
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|         | 5,497,830       | 03-12-96               | Boles, et al.         | 166   | 300      | 04-06-95       |
|         | 5,499,678       | 03-19-96               | Surjaatmadja, et al.  | 166   | 298      | 08-02-94       |
|         | 5,505,787       | 04-09-96               | Yamaguchi             | 134   | 4        | 01-28-94       |
|         | 5,512,071       | 04-30-96               | Yam, et al.           | 51    | 307      | 02-25-94       |
|         | 5,604,186       | 02-18-97               | Hunt, et al.          | 507   | 204      | 02-15-95       |
|         | 5,670,473       | 09-23-97               | Scepanski             | 510   | 445      | 06-06-95       |
|         | 5,698,322       | 12-16-97               | Tsai, et al.          | 428   | 373      | 12-02-96       |
|         | -,,             |                        |                       |       |          |                |

EXAMINER DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

# PTO-1449 Information Disclosure Citation in an Application Application No. 10/609,031 Trinidad Munoz, et al Docket Number 2002-IP-009052U1 Group Art Unit Filing Date 06/27/2003

#### **U.S. PATENT DOCUMENTS**

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| 5,833,000       | 11-10-98           | Weaver, et al.    | 166   | 276      | 02-18-97       |
| 5,853,048       | 12-29-98           | Weaver, et al.    | 166   | 279      | 04-21-98       |
| 5,893,416       | 04-13-99           | Read              | 166   | 304      | 11-28-97       |
| 5,964,291       | 10-12-99           | Bourne, et al.    | 166   | 279      | 02-28-96       |
| 6,004,400       | 12-21-99           | Bishop, et al.    | 134   | 2        | 07-09-97       |
| 6,024,170       | 02-15-00           | McCabe, et al.    | 166   | 300      | 06-03-98       |
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| 6,209,646 B1    | 04-03-01           | Reddy, et al.     | 166   | 300      | 04-21-99       |
| 6,214,773 B1    | 04-10-01           | Harris, et al.    | 507   | 271      | 09-29-99       |
| 6,260,622 B1    | 07-17-01           | Blok, et al.      | 166   | 305.1    | 12-23-98       |
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| 6,357,527 B1    | 03-19-02           | Norman, et al.    | 166   | 300      | 05-05-00       |
| 6,364,945 B1    | 04-02-02           | Chatterji, et al. | 106   | 677      | 12-13-00       |
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| 6,508,305 B1    | 01-21-03           | Brannon, et al.   | 166   | 293      | 09-14-00       |
| 6,527,051 B1    | 03-04-03           | Reddy, et al.     | 166   | 300      | 07-12-02       |
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| 6,667,279 B1    | 12-23-03           | Hessert, et al.   | 507   | 225      | 11-13-97       |
|                 | · ·                |                   |       |          |                |

EXAMINER DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

# PTO-1449 Information Disclosure Citation in an Application Application No. 10/609,031 Trinidad Munoz, et al Docket Number 2002-IP-009052U1 Group Art Unit Filing Date 06/27/2003

#### **U.S. PATENT DOCUMENTS**

| DOCUMENT<br>NO.      | ISSUE/PUB.<br>DATE   | NAME  | CLASS  | SUBCLASS  | FILING<br>DATE  |
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| 6,686,328 B1         | 02-03-04   | Binder  | 510  | 446   | 07-09-99  |
| US<br>2003/0188766A1 | 10-09-03   | Banerjee, et al.  | 134  | 7   | 12-19-02  |
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| US<br>2004/0106525A1 | 06-03-04   | Willbert, et al.  | 507  | 200   | 10-17-03  |
| US<br>2004/0138068A1 | 07-15-04   | Rimmer, et al.  | 507  | 100   | 12-19-03  |
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

#### Application No. Applicant(s) PTO-1449 10/609,031 Trinidad Munoz, et al **Docket Number** Group Art Unit Filing Date Information Disclosure Citation in an 2002-IP-009052U1 06/27/2003 **Application NON-PATENT DOCUMENTS DOCUMENT (Including Author, Title, Source, and Pertinent Pages)** Cantu, et al, Laboratory and Field Evaluation of a Combined Fluid-Loss-Control Additive and Gel Breaker for Fracturing Fluids, SPE 18211, Society of Petroleum Engineers, 1990 Love, et al, Selectively Placing Many Fractures in Openhole Horizontal Wells Improves Production, SPE 50422, Society of Petroleum Engineers, 1998 McDaniel, et al, Evolving New Stimulation Process Proves Highly Effective in Level 1 Dual-Lateral Completion, SPE 78697, Society of Petroleum Engineers, 2002 Albertsson, et al, Aliphatic Polyesters: Systhesis, Properties and Applications, Advances in Polymer Science, Vol. 157, 2002 Dechy-Cabaret, et al, Controlled Ring-Opening Polymerization of Lactide and Glycolide, American Chemical Society, Chemical Reviews, A-Z, AA-AD, received 2004 Funkhouser, et al, Synthetic Polymer Fracturing Fluid for High-Temperature Applications, SPE 80236, Society of Petroleum Engineers, 2003 Chelating Agents, Encyclopedia of Chemical Technology, Vol. 5 (764-795) Vichaibun, et al, A New Assay for the Enzymatic Degradation of Polylactic Acid, Short Report, ScienceAsia, Vol. 29, 2003 (pp. 297-300) Halliburton, SurgiFrac<sup>SM</sup> Service, A Quick and Cost-Effective Method to Help Boost Production From Openhole Horizontal Completions, Halliburton Communications, HO3297, 2002 Halliburton, Cobra Frac<sup>SM</sup> Service, Coiled Tubing Fracturing—Cost-Effective Method for Stimulating Untapped Reserves, HO2319R, Halliburton Energy Services, 2000 Halliburton, CobraJet Frac<sup>SM</sup> Service, Cost-effective Technology That Can Help Reduce Cost Per BOE Produced, Shorten Cycle Time and Reduce Capex, Halliburton Communications Blauch, et al, Aqueous Tackifier and Methods of Controlling Particulates, Patent Application No. 10/864,061, filed 06-09-04 Blauch, et al, Aqueous-Based Tackifier Fluids and Methods of Use, Patent Application No. 10/864.618, filed 06-09-04 **EXAMINER DATE CONSIDERED** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation

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